

Form PTO-1449 U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No. BDG005-1-4		Serial No. 10/655,819	
INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)				Applicant Cheng-Lien Chiang			
				Filing Date September 5, 2003		Group Art Unit 2812	
U.S. Patent Documents							
*Examiner's Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
OL	AA 5,949,135	09/1999	Washida et al.	257	685		
	AB 5,973,388	10/1999	Chew et al.	257	676		
	AC						
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Foreign Patent Documents							
						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
	AN						
	AO						
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AP						
	AQ						
Examiner	Date Considered <i>11/15/05</i>						
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your next communication to Applicant.</small>							

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>OH</i>	AA	5,440,231	08/1995	Sugai	324	158.1	
	AB	6,114,770	09/2000	Akram et al.	257	784	
<i>DB</i>	AC	6,353,265	03/2002	Michii	257	777	
<i>OB</i>	AD	6,369,595	04/2002	Farnworth et al.	324	755	
	AE						
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Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
	AN						Yes
	AO						No
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AP						
	AQ						
Examiner	<i>Deepti Jha</i>		Date Considered		<i>11/15/05</i>		
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U.S. Patent Documents							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
OF	AA 4,971,930	11/1990	Fusaroli et al.	437	217		
OF	AB 5,530,282	06/1996	Tsuji	257	666		
OF	AC 6,512,219	01/2003	Webster et al.	250	208.1		
AD							
AE							
AF							
AG							
AH							
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AJ							
AK							
AL							
AM							
Foreign Patent Documents							
	Document	Date	Country	Class	Subclass	Translation	
AN						Yes	No
AO						Yes	No
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)							
AP							
AQ							
Examiner <i>Dee C. Lee</i>	Date Considered <i>11/15/03</i>						
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U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>CH</i>	AA	6,335,565	01/01/02	Miyamoto et al.	257	686	
	AB						
	AC						
	AD						
	AE						
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	AI						
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	AL						
	AM						
Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
		AN					Yes
		AO					No
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AP						
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Cheng-Lien Chiang	
		Filing Date	Group Art Unit <i>2891</i>

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>OK</i>	AA	5,081,520	01/1992	Yoshii et al.	357	80	
	AB	5,241,133	08/1993	Mullen, III et al.	174	52.4	
	AC	5,394,303	02/28/95	Yamaji	361	749	
	AD	5,665,652	09/1997	Shimizu	438	127	
	AE	5,674,785	10/1997	Akram et al.	437	217	
	AF	5,744,827	04/28/98	Jeong et al.	257	686	
	AG	5,744,859	04/1998	Ouchida	257	668	
	AH	5,804,771	09/1998	McMahon et al.	174	255	
	AI	5,811,879	09/1998	Akram	257	723	
	AJ	5,949,655	09/1999	Glenn	361	783	
	AK	6,013,877	01/2000	Degani et al.	174	264	
	AL	6,143,588	11/2000	Glenn	438	116	
	AM	6,159,770	12/2000	Tetaka et al.	438	112	
	AN	6,274,927	08/2001	Glenn	257	680	

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Crowley, "Socket Developments for CSP and FBGA Packages," Chip Scale Review, May 1998, pp. 37-40.
	AP	Forster, "Socket Challenges for Chip-Scale Packages," Chip Scale Review, May 1998, pp. 43-47.
<i>V</i>	AQ	Amagai, "Chip-Scale Packages for Center-Pad Memory Devices," Chip Scale Review, May 1998, pp. 68-77.
<i>OK</i>	AR	Vandevelde et al., "The PSGA, a Lead-Free CSP for High Performance & High Reliable Packaging," Proceedings of the 2001 International Symposium on Microelectronics, October 9, 2001, pp. 260-265.

Examiner	Date Considered
<i>OK</i>	<i>11/15/05</i>

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Cheng-Lien Chiang	
		Filing Date	Group Art Unit <i>2891</i>
*Examiner Initial	Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)		
<i>DK</i>	AA	U.S. Application Serial No. 09/865,367, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Simultaneously Electroplated Contact Terminal and Connection Joint"	
	AB	U.S. Application Serial No. 09/864,555, filed May 24, 2001, entitled "Semiconductor Chip Assembly with Simultaneously Electrolessly Plated Contact Terminal and Connection Joint"	
	AC	U.S. Application Serial No. 09/864,773, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Ball Bond Connection Joint"	
	AD	U.S. Application Serial No. 09/878,649 filed June 11, 2001, entitled "Method of Making a Semiconductor Chip Assembly with a Conductive Trace Subtractively Formed Before and After Chip Attachment"	
	AE	U.S. Application Serial No. 09/878,626 filed June 11, 2001, entitled "Method of Connecting a Conductive Trace to a Semiconductor Chip"	
	AF	U.S. Application Serial No. 09/917,339 filed July 27, 2001, entitled "Method of Connecting a Bumped Compliant Conductive Trace to a Semiconductor Chip"	
	AG	U.S. Application Serial No. 09/927,216 filed August 10, 2001, entitled "Semiconductor Chip Assembly with Hardened Connection Joint"	
	AH	U.S. Application Serial No. 09/939,140 filed August 24, 2001, entitled "Semiconductor Chip Assembly with Interlocked Conductive Trace"	
	AI	U.S. Application Serial No. 09/962,754 filed September 24, 2001, entitled "Method of Connecting a Conductive Trace and an Insulative Base to a Semiconductor Chip"	
<i>B</i>	AJ	U.S. Application Serial No. 09/972,796 filed October 6, 2001, entitled "Method of Connecting a Bumped Compliant Conductive Trace and an Insulative Base to a Semiconductor Chip"	
<i>DK</i>	AK	U.S. Application Serial No. 09/997,973 filed November 29, 2001, entitled "Method of Connecting a Bumped Conductive Trace to a Semiconductor Chip"	
Examiner	-	Date Considered	<i>11/15/05</i>
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Form PTO-1449 U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No. BDG005-1-4	Serial No. <i>10/65589</i>
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Cheng-Lien Chiang	
		Filing Date	Group Art Unit <i>2891</i>

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>DP</i>	AA 5,149,958	09/1992	Hallenbeck et al.	250	216	
	AB 5,264,714	11/1993	Nakaya et al.	257	78	
	AC 5,405,809	04/1995	Nakamura et al.	437	209	
	AD 5,834,835	11/1998	Maekawa	257	680	
	AE 5,834,843	11/1998	Mori et al.	257	723	
<i>DP</i>	AF 5,859,471	01/1999	Kuraishi et al.	257	666	
<i>DP</i>	AG 5,893,723	04/1999	Yamanaka	438	65	
	AH 6,265,770	07/2001	Uchiyama	257	698	
	AI					
	AJ					
	AK					
	AL					
	AM					

Foreign Patent Documents

AC	Document	Date	Country	Class	Subclass	Translation	
						Yes	No
	AN JP-57100761	06/1982	Japan	H01L	27/14		<input checked="" type="checkbox"/>
	AO						

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AP</i>		
	<i>AQ</i>	

Examiner <i>DP</i>	Date Considered <i>11/15/05</i>
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		Filing Date	Group Art Unit 289

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>AC</i>	AA	3,627,901	12/1971	Happ	174	52 PE	
	AB	3,678,385	07/1972	Bruner	324	158 F	
	AC	3,930,114	12/1975	Hodge	174	52 FP	
	AD	4,506,238	03/1985	Endoh et al.	333	138	
	AE	5,157,480	10/1992	McShane et al.	357	74	
	AF	5,207,102	05/1993	Takahashi et al.	73	727	
	AG	5,436,500	07/1995	Park et al.	257	696	
	AH	5,677,566	10/1997	King et al.	257	666	
	AI	5,866,939	02/1999	Shin et al.	257	666	
	AJ	5,894,107	04/1999	Lee et al.	174	52.2	
	AK	5,951,804	09/1999	Kweon et al.	156	244.12	
	AL	6,114,770	09/2000	Akram et al.	257	784	
	AM	6,130,116	10/2000	Smith et al.	438	127	
	AN	6,232,152	05/2001	DiStefano et al.	438	124	
	AO	6,297,543	10/2001	Hong et al.	257	666	
	AP	6,303,997	10/2001	Lee	257	778	
	AQ	6,326,700	12/2001	Bai et al.	257	790	
	AR	6,445,077	09/2002	Choi et al.	257	786	
	AS	6,455,356	09/2002	Glenn et al.	438	123	
	AT	6,468,836	10/2002	DiStefano et al.	438	128	

Foreign Patent Documents

Examiner	Document	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>AC</i>	AU JP-01128897	05/1989	Japan	B42D	15/02		x
Examiner <i>Lee et al.</i>		Date Considered <i>11/15/05</i>					

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	Filing Date	Group Art Unit <i>289</i>

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>DD</i>	AA 6,001,671	12/1999	Fjelstad	438	112	
	AB 6,025,650	02/2000	Tsuji et al.	257	786	
	AC 6,281,568	08/2001	Glenn et al.	257	684	
AD						
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Foreign Patent Documents

	Document	Date	Country	Class	Subclass	Translation
	AN					Yes
	AO					No

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner <i>David J. Job</i>	Date Considered <i>11/15/05</i>

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U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<i>DL</i>	AA	6,198,171	03/2001	Huang et al.	257	787		
	AB	6,218,728	04/2001	Kimura	257	693		
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
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	AJ							
	AK							
	AL							
	AM							
Foreign Patent Documents						Translation		
		Document	Date	Country	Class	Subclass	Yes	No
<i>DL</i>	AN	JP-06097352	04/1994	Japan	H01L	23/50	X	
	AO							
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AP							
	AQ							
Examiner <i>Cheng-Lien Chiang</i>	Date Considered <i>11/15/05</i>							
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